



Espacenet

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### ULTRASONIC CONTRAST MEDIUM AND PRODUCTION THEREOF

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### Abstract of JP 8151335 (A)

**PURPOSE:** To provide an ultrasonic contrast medium for myocardium which comprises hollow microcapsules having a monolayer membrane of a biodegradable polymer, this is useful in ultrasonic diagnosis. **CONSTITUTION:** A solution of a biodegradable macromolecule in a water-immiscible organic solvent is dispersed in water to prepare a W/O emulsion. Then, this W/O type emulsion is combined with an emulsion to form a W/O/W type emulsion. On the secondary emulsification of the W/O emulsion into water, stirring is effected to make the W/O type emulsion smaller in its drop size and simultaneously promote the unification of the inner aqueous phase of W/O emulsion drops. Then, the organic solvent is vaporized off to solidify the biodegradable polymer, then water is removed to give this ultrasonic contrast medium comprising fine particles. Since this contrast medium is in the anhydrous powdery state, it can be dispersed in an aqueous medium, when it is applied, then given orally, parenterally, preferably by injection.

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